

WPI

TI - Diversity communication device for digital mobile communication, TDD system - has switch at mobile station for automatic change of antennae have good signal strength

AB - J07245577 The diversity communication device has a first transceiver (100) with multiple antennae (101,102). The first receivers (105,106) individually demodulate the signal received through the antennae. The first receiving quality detectors (109,110) detect the quality of received signals from antennae of first transceiver. The demodulation signal synthesiser (112) selects the received signals according to the detection result.

- A first transmitter (114) performs transmission through a suitable antenna. A second transceiver (300) at the mobile station has two antennae (301,302) a switch (309) selects one of the antenna. The second receiver (303) demodulates the signal received through the switch. The second receiving quality detector (307) detects the quality of received signal. When the signal is lower than a limit value has been compared by a comparator (303), which changes the switch automatically. A second transmitter transmits the signal through the switch.

- ADVANTAGE - Obtains high quality circuit with simple composition.

- (Dwg.1/5)

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PA - (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP

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TI - DIVERSITY COMMUNICATION EQUIPMENT

AB - PURPOSE:To obtain low power consumption and high line quality by the use of a simple equipment by providing plural antennas and selecting any of the antennas to send a transmission signal when the detected reception quality is lower than a threshold quality.

- CONSTITUTION:A comparator 308 in a mobile station 300 having antennas 301, 302 compares a signal strength detected by a reception signal strength detector 307, that is, a detection result of a reception signal with a threshold level received externally in advance. When the signal strength is smaller than the threshold level, the comparator 308 switches the setting of a switch 309 so as to select the opposite antenna to be connected. Thus, the reception signal received by a receiver 303 is demodulated by a demodulator 305 and outputted. When an externally inputted signal is modulated by a modulator 306 in the transmission of an incoming signal from the mobile station 300 and the modulated signal becomes a transmission signal by a transmitter 304 and sent through either of the antennas 301, 302 selected by the switch 309 after via the switch 310.

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